			Michig	gan 2011 Transparency Re	eport							
		Lo	cations Ex	hibiting the Most Severe S	Safety Needs							
						Crash and Injury Data				Human Factors		
						Cr	<u>asıı aflü l</u>	injury Da	ıa 	ı	NO NO	11L
							Total			Alcohol	Seatbelt and/ or	
			Estimated		_	SHSP	Severe			and/ or	Helmet	
Location	Jurisdiction	Potential Remedies	Costs	Implementation Impediments	Comments	Focus Area	Crashes	A Injuries	Fatalities	Drug*	Use**	Speed***
			\$1000 per tree				l	Ī		l		l
			removal.									
			Pavement									
			markings to									
			convert to center									
			left turn lane -									
			\$3000.00. With	Public acceptance for removal of trees, If								
			widening and no	widening necessary - availability of funding								
	NID OT DILL	Investigate converting existing passing		or reorganization of safety projects to								
M-59 (E Highland Rd) & Hartland Woods		flare to a center left turn lane. Check	turn lane -	accomodate funding. Possible ROW								
Drive	TSC	taper length. Possible tree removal.	\$375,000.	required if widening necessary.		Intersection	4	8	0	0	1	0
		Modern and the Description of the Lands of t		Additional R.O.W. would be needed and								
Dalmar Dd 9 Vanay Dd	Mayna Caynty	Widen pavement. Provide center left	#250 000	would be difficult to acquire due to impact		leste ve e etie e	_	_		_		
Palmer Rd & Venoy Rd	Wayne County	turn lanes and upgrade signal. Installation of a continous left center	\$350,000	on existing businesses.	This work will be completed with	Intersection	5	/	1	1	U	U
US-24 (Telegraph) & Struin Rd	MDOT Taylor TSC		~\$1,500,000	N/A	JN46277 in 2012.	Intersection	4	c		2	0	
05-24 (Telegraph) & Struin Ru	IVIDOT Taylor 13C	lum ane.	~\$1,500,000	IN/A	JN46277 III 2012.	mersection	4	0			U	U
				This is a private driveway approach, and is								
				not eligible for MDOT funding. Similarly,								
		Left turn phasing. Reconstruct private		the service drive is on private property and								
		approach to signal as a road approach		is not eligible for state funding. The need								
		rathter than a large M opening with		to move buildings or redesign parking								
	MDOT Lansing	gutter. Move service drive farther	\$100,000 to		Signal is being evaluated for							
M-21 & Airport Trail	TSC	away from M-21.	\$500,000	•	protected left turn phasing.	Intersection	4	8	0	0	0	0
·				A 2009 request to install left turn phasing								
				on M-97 was not recommended because								
	MDOT Macomb			the operational changes did not meet								
M-97 (Groesbeck) & 10 Mile Rd	TSC	Install left-turn phasing on M-97.	\$150,000	signal warrant.		Intersection	4	5	1	1	0	1
					Will coordinate with Light Rail							
	MDOT D / 1/ TOO	Pedestrian push buttons. Left turn	\$100,000 to	Planned Light Rail may eliminate left turns	l' , .			_				
M-1 (Woodward Ave) & Manchester St	MDOT Detroit TSC	phase.	upgrade signal	at this intersection.	cooridor.	Intersection	4	7	0	0	0	1
					An intersection analysis was							
					completed in 2008 due to an							
		Installation of additional STOP AHEAD			increase in crash numbers. The							
		and STOP signs on the left side of the			analysis did not warrant installation							
		two Linn Road approaches to the			of an all-way stop situation. As a							
		intersection. Installation of additional			result, we did install 36" STOP							
		"cross traffic does not stop" signs			signs, yellow "cross traffic does not							
		mounted on the back of the STOP sign			stop" signs under the STOPs, and							
		posts for opposing traffic (across the			reflective post inserts.							
		road from the conventional STOP sign,		Maintenance issues related to installation	Linn Road from the Williamston							
		left side). Installation of stop bar			Road interchange with I-96, west to							
		pavement markings on each approach.			Meridian Road to Jolly Road was an							
		Installation of rumble strips on each		installations require unique or additional	"alternate route" around the I-96							
		approach. Installation of a flashing	1.		construction during the summer of							
Zimmer Rd & Linn Rd	Ingham County	beacon.	\$50,000	bare-bones staff.	2010.	Intersection	4	7	0	0	1	0

Alignment shift E/W.

Intersection 6

\$1,000

Macomb County Protected left during off peak.

13 Mile Rd & Dequindre Rd

Enforcement and education. Provide headed-up lefts on Mt. Elliot and left-turn phasing, No Turn On Red signing, close driveways, provide a box spansignal configuration, pedestrian count-down signals. M-3 (Gratiot Ave) & Mt Elliot M-21 (Chicago Dr) & 72nd Ave Rapids TSC Schoenherr Rd & 21 Mile Rd MOOT Traverse US-31 & Morgan Run Drive Enforcement and education. Provide headed-up lefts on Mt. Elliot and left-turn phasing, No Turn On Red signing, close driveways, provide a box spansignal configuration, pedestrian count-down signals. S100,000 to upgrade signal upgrade	1 0	0 0	0 0 2	0 0 0
turn phasing, No Turn On Red signing, close driveways, provide a box spansignal configuration, pedestrian spansignal configuration, pedestrian spansignal count-down signals. M-3 (Gratiot Ave) & Mt Elliot MDOT Detroit TSC Count-down signals. MOOT Detroit TSC Count-down signals. Add indirect left turn lanes. Close through movement of 72nd Ave due to crash type. M-21 (Chicago Dr) & 72nd Ave Rapids TSC Crash type. Schoenherr Rd & 21 Mile Rd Macomb County Access Management, NW corner. Schoenherr Rd & 21 Mile Rd Moot Traverse US-31 & Morgan Run Drive City TSC None N/A N/A N/A Meet warrants; utility issues with box span; political issues with box span; political issues with closing existing drives for existing businesses. Mt. Elliot is under local jurisdiction. Intersection 5 4 The construction of indirect left turn lanes and the closure of the through movement of 72nd Ave will be crash type. S600,000 N/A completed in 2011. Intersection 5 6 Crashes were segment related. Rumble Strips were installed in 2010. No additional crashes have occurred since installation. All four of the crashes occurred during adverse weather conditions. US-31 & Morgan Run Drive City TSC None N/A N/A N/A Surface conditions listed as ICY. Intersection 4 S100,000 to upgrade signal local jurisdiction. Intersection 5 4 Crashes were segment related. Rumble Strips were installed in 2010. No additional crashes have occurred since installation. All four of the crashes occurred during adverse weather conditions.	1 0	0 0	0 0 2	0 0
close driveways, provide a box spansignal configuration, pedestrian M-3 (Gratiot Ave) & Mt Elliot MDOT Detroit TSC MDOT Grand MDOT Grand MDOT Grand MDOT Grand Macomb County Macomb County Macomb County MDOT Traverse US-31 & Morgan Run Drive Close driveways, provide a box spansignal configuration, pedestrian S100,000 to upgrade signal local jurisdiction. political issues with closing existing drives for existing businesses. Mt. Elliot is under local jurisdiction. The construction of indirect left turn lanes and the closure of the through movement of 72nd Ave will be completed in 2011. Intersection 5 5 5 Crash type. S250,000 N/A	1 0	0 0	0 0 2	0 0
spansignal configuration, pedestrian M-3 (Gratiot Ave) & Mt Elliot MDOT Detroit TSC Count-down signals. Add indirect left turn lanes. Close through movement of 72nd Ave due to crash type. Schoenherr Rd & 21 Mile Rd MDOT Grand Macomb County Access Management, NW corner. Sepansignal configuration, pedestrian by add indirect left turn lanes. Close through movement of 72nd Ave due to crash type. Sepansignal configuration, pedestrian by add indirect left turn lanes. Close through movement of 72nd Ave will be crash type. Sepansignal configuration, pedestrian by add indirect left turn lanes. Close through movement of 72nd Ave will be crash type. Sepansignal configuration, pedestrian by add indirect left turn lanes. Close through movement of 72nd Ave will be crash type. Sepansignal configuration, pedestrian by add indirect left turn lanes. Close through movement of 72nd Ave will be crash type. Sepansignal configuration, pedestrian by add indirect left turn lanes and the closure of the through movement of 72nd Ave will be completed in 2011. Intersection 5 Sepansignal configuration, pedestrian by add indirect left turn lanes and the closure of the through movement of 72nd Ave will be completed in 2011. Intersection 5 Sepansignal configuration, pedestrian by add indirect left turn lanes and the closure of the through movement of 72nd Ave will be completed in 2011. Intersection 5 Sepansignal configuration, pedestrian by add indirect left turn lanes and the closure of the through movement of 72nd Ave will be completed in 2011. Intersection 5 Sepansignal configuration. Add indirect left turn lanes and the closure of the through movement of 72nd Ave will be completed in 2011. Intersection 5 Sepansignal configuration. Intersection 5 A Sepansignal configuration. Intersect	1 0	0 0	0 0 2	0 0
spansignal configuration, pedestrian M-3 (Gratiot Ave) & Mt Elliot MDOT Detroit TSC Count-down signals. Add indirect left turn lanes. Close through movement of 72nd Ave due to Crash type. Schoenherr Rd & 21 Mile Rd MDOT Grand Macomb County Access Management, NW corner. Schoenherr Rd & 21 Mile Rd MDOT Traverse US-31 & Morgan Run Drive Spansignal configuration, pedestrian spansignal configuration, spansignal configuration, spansignal configuration, spansignal call prices in spansic indication. Intersection indirect left turn lanes and the closure of the through movement of 72nd Ave will be completed in 2011. Intersection 5 5 5 Crashes were segment related. Rumble Strips were installed in 2010. No additional crashes have occurred since installation. All four of the crashes occurred during adverse weather conditions. US-31 & Morgan Run Drive US-31 & Morgan Run Drive Spansignal configuration. N/A N/A N/A N/A N/A N/A N/A N/	1 0	0 0	0 0 2	0 0
M-3 (Gratiot Ave) & Mt Elliot MDOT Detroit TSC count-down signals. upgrade signal local jurisdiction. The construction of indirect left turn lanes and the closure of the through movement of 72nd Ave will be completed in 2011. Intersection 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 0	0 0	0 0 2	0 0 0
Add indirect left turn lanes. Close MDOT Grand M-21 (Chicago Dr) & 72nd Ave Rapids TSC Schoenherr Rd & 21 Mile Rd Macomb County Access Management, NW corner. Section 1 Access Management, NW corner. MDOT Traverse US-31 & Morgan Run Drive The construction of indirect left turn lanes and the closure of the through movement of 72nd Ave will be completed in 2011. Intersection 5 5 Crash type. Section,000 N/A N/A N/A N/A N/A N/A N/A	1 0	0	0 2	0 0
Add indirect left turn lanes. Close through movement of 72nd Ave due to crash type. Schoenherr Rd & 21 Mile Rd MOOT Grand Macomb County Access Management, NW corner. \$500,000 N/A Schoenherr Rd & 21 Mile Rd Macomb County Access Management, NW corner. \$250,000 No existing joint land use Crashes were segment related. Rumble Strips were installed in 2010. No additional crashes have occurred since installation. All four of the crashes occurred during adverse weather conditions. US-31 & Morgan Run Drive City TSC None N/A N/A N/A N/A N/A N/A N/A N/	1 0	0	0 2	0 0
MDOT Grand through movement of 72nd Ave due to Rapids TSC crash type. \$600,000 N/A completed in 2011. Intersection 5 5 5 Schoenherr Rd & 21 Mile Rd Macomb County Access Management, NW corner. \$250,000 No existing joint land use Crashes were segment related. Rumble Strips were installed in 2010. No additional crashes have occurred since installation. All four of the crashes occurred during adverse weather conditions. US-31 & Morgan Run Drive City TSC None N/A N/A N/A N/A Surface conditions listed as ICY. Intersection 4 3	1 0	0	0 2	0 0
M-21 (Chicago Dr) & 72nd Ave Rapids TSC Schoenherr Rd & 21 Mile Rd Macomb County Access Management, NW corner. \$50,000 No existing joint land use Crashes were segment related. Rumble Strips were installed in 2010. No additional crashes have occurred since installation. All four of the crashes occurred during adverse weather conditions. US-31 & Morgan Run Drive Rapids TSC Crash type. \$600,000 N/A Completed in 2011. Intersection 5 5 6 Crashes were segment related. Rumble Strips were installated in 2010. No additional crashes have occurred since installation. All four of the crashes occurred during adverse weather conditions. US-31 & Morgan Run Drive N/A N/A N/A N/A N/A Surface conditions listed as ICY. Intersection 4 3	1 0	0	0 2	0 0
Schoenherr Rd & 21 Mile Rd Macomb County Access Management, NW corner. \$250,000 No existing joint land use Crashes were segment related. Rumble Strips were installed in 2010. No additional crashes have occurred since installation. All four of the crashes occurred during adverse weather conditions. US-31 & Morgan Run Drive N/A N/A N/A N/A N/A Surface conditions listed as ICY. Intersection 5 6	0	0	2	0
Crashes were segment related. Rumble Strips were installed in 2010. No additional crashes have occurred since installation. All four of the crashes occurred during adverse weather conditions. US-31 & Morgan Run Drive City TSC None N/A N/A N/A N/A N/A Surface conditions listed as ICY. Intersection 4 3	U	U		
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Rumble Strips were installed in 2010. No additional crashes have occurred since installation. All four of the crashes occurred during adverse weather conditions. US-31 & Morgan Run Drive Rumble Strips were installed in 2010. No additional crashes have occurred since installation. All four of the crashes occurred during adverse weather conditions. N/A N/A N/A Surface conditions listed as ICY. Intersection 4 3				
US-31 & Morgan Run Drive A				
occurred since installation. All four of the crashes occurred during adverse weather conditions. US-31 & Morgan Run Drive City TSC None N/A N/A N/A Surface conditions listed as ICY. Intersection 4 3				
MDOT Traverse US-31 & Morgan Run Drive MDOT Traverse Of the crashes occurred during adverse weather conditions. N/A N/A N/A Surface conditions listed as ICY. Intersection 4 3				
MDOT Traverse adverse weather conditions. US-31 & Morgan Run Drive City TSC None N/A N/A Surface conditions listed as ICY. Intersection 4 3				
US-31 & Morgan Run Drive City TSC None N/A N/A Surface conditions listed as ICY. Intersection 4 3				
Provide hox span signal display left-	3	0	0	4
turn phase for E-W direction,				
pavement markings, intersection				
lighting and check signal timing Right of way restrictions, utility				
Schaefer Hwy & W Chicago St City of Detroit (Clearance Intervals and offsets). \$250, 000 coordination.	0	0	0	0
High percentage of the serious		–	-	+
injuries were alcohol related				
crashes. Constructed recessed				
modified ureathane pavement				
SB US-131 - Cherry St to south of MDOT Grand Enforcement and markings through this section in Lane				
Franklin St Rapids TSC increase delineation. N/A Availability of enforcement 2010. Departure 11 13	0	5	0	5
Crashes relate to issues present				
Unknown for "new Utility issues with "new drainage"; along the corridor and should be				
WB I-94 - E of Scotten St to 1/4 mile W of Cushion wall; drainage improvements; drainage" and funding/personnel issues with addressed along I-94, not limited Lane				
30th St MDOT Detroit TSC enforcement. cushion wall. enforcement. this location. Departure 6 7	2	2	1	4
Six of the serious injuries were from				
SB US-131 - North of 10 Mile Rd				
interchage to south of 10 Mile Rd MDOT Grand control and overturned due to a tire Lane				
interchange Rapids TSC N/A N/A that blew. Departure 5 11	0	0	6	2
Improve Superelevation, improve This work will be incorporated into Lane		-	0	
WB I-96 - Beech Daly to Inkster Rd MDOT Taylor TSC drainange, improve surface friction \$1,000,000 None JN 89095 in 2013. Departure 8 9	0	1	0	5
Additional signing				
\$1500, guardrail -				
\$9500, trim				
Add additional speed plaques to curve vegetation - Additional curve warning with speed				
warning signs, provide additional \$1000, (\$1000 per advisory signs, Chevrons, sign post				
chevron signs along curve, check if tree if removal reflector panels, were added in	1			
additional guardrail is necessary just necessary), early 2009. A safety project has	1			
MDOT Brighton after overpass, trim vegetation around Delineators - Public acceptance for removal of trees, if been submitted for installation of an Lane				
EB I-94 - near Kalmbach Road TSC curve and add delineators on guardrail. \$500. necessary. automatic de-icing system for 2014. Departure 5 6	3	0	7	5
WB I-94 - north of 8 Mile Rd to Lochmoor Lane		Ť	1	1
Dr (crossover bridge) MDOT Detroit TSC Enforcement Unknown Availability of enforcment.	2	1	2	3
- Contraction of the contraction	 -	+	-	+
The area does include a railroad				
overpass with median abutment	1			
	1			
which does already have	1			
Would need attenuation at each end; attenuation, this would remove need	1			
maintenance and plowing will be more for attenuation at this location and	1			
difficult in this area; maintenance of instead have attenuation away from				
US-41 - Railroad bridge east of Midway MDOT Ishpeming Double-sided guardrail in middle of attenuators after hits; increase of fixed the structure, at the terminals of the Lane				
Dr to Brebner Road TSC paved median. \$40,000 object crashes. guardrail. Departure 5 8	0	2	3	4

Dequindre Rd - Common Rd to Whitcomb				Pavement quality may not support rumble		Lane						
		1	provernomo.		nate offering opposition from locals.			 	+'	4'	4	- -
Cooley Lake Rd - Hiller Rd to Lake Vista Rd		Replace raised pavement markers (RPMs) as needed. Flatten Curve.	geometric improvements.		need wait until next year. May also have strong opposition from locals.	Lane Departure	5	5	1	1	2	2
Cooloy Lako Pd Hillor Pd to Lako		needed to flourescent yellow sheeting.			to replace RPMs this year, but may	Lanc					1	
		Review signs and upgrade where	RPMs,		Will replace signs this year. Will try							
			About \$2500 for signing and									
Rd	Wayne County	lane.	\$150,000.00	have off street parking.		Departure	4	6	0	1	2	2
Greenfield Road - Ellis Rd to Wadsworth		pavement to include center left turn		difficult due to most businesses do not		Lane						
		Eliminate on street parking and remark		Elimination of on street parking will be			1	1-	1	1-	1	
southbound off-ramp	Ottawa County	Chevron installation east of Regal Dr.	\$500			Lane Departure	4	6	0	3	0	2
Mile Rd to 1/4 M north of 7 Mile Rd 44th Street - east of 8th Ave to I-196	Kent County	road surface.	\$95,000		was awarded for (FY2012) As per MDOT Local Safety Initiative	Departure	4	4	2	[]	2	1
Fruit Ridge Ave NW - 1/2 M south of 7		Way. Improve the friction factor of the			A Federal Local Safety project grant							
		Provide a clear zone within the Right-o	f			•						
Ave	Muskegon County		N/A			Departure	4	8	1	1	0	1
Sheridan Road - Evanston Ave to Vine		Road to receive surface treatment chip			the intersections. The intersections	Lane						
		No geometric remedies are proposed.			intersections. Crashes within the segment are related to the effects of						1	
					are also three residential area road						1	
					volume four-way stop control. There						1	
					spaced intersections each with high						1	
					This segment contains two closely							
Capac Road - Pratt Rd to Hough Rd	Macomb County	Center and shoulder rumble strips.	\$50,000		Partially in St Clair County.	Departure	5	3	3	3	2	4
					, ,	Lane	_					
Sprinkle Road - North of Michigan Ave to north of Main St		Centerline and shoulder rumble strips. Possible superelevation modification.	\$450,000	Acceptance for future local safety project.		Lane Departure	6	8	0	1_	0	2
crossover south of Cedar Creek	TSC	zone.	\$2,000,000	shoulder widening.	standards.	Departure	4	6	0	0	2	1
SB US-31 - south of Holton Rd to		removing identifed trees if in clear		• •		Lane						
		width throughout section of roadway;			Address as projects are constructed							
·		Ensure consistent paved shoulder		If existing total width of shoulder is less	·							
US-41 - Bayou Street to Prison Road	TSC	gutter, provide 8' paved shoulders.	\$5,000,000			Departure	4	5	1	3	2	2
		cross slope, remove barrier curb and				Lane						
		Reconstruct Road w/ grade lift, proper			accomplish these remedies. Job						1	
					Job Number 80147 and 106661 will be constructed in 2012 to						1	
Co Rd 393) to County Rd 397	TSC	Delineators	\$10,000			Departure	4	5	1	1	2	2
,		Shoulder Rumble Strips; Break-a-way	~\$15,000,		·	Lane						
				•	straight stretch of highway.							
				in this area would put the snowbanks	M-28 through this loctions is a						1	
				does not meet standards for placing shoulder rumble strips.; Large snow totals								
				Paved Shoulder is only 3 feet wide which								
Arbor Road	TSC	Lengthen on-ramp from Sargent Rd.	\$500,000		factors associated with them.	Departure	4	J	I	U	U	
	MDOT Jackson	Langeth on an increase from Commont Del	Ф г оо ооо		Crashes have multiple, unrelated	Lane		_				
Road interchange		lengthen off ramp.	\$2,500,000	None	barrier installed in 2010.	Departure	5	5	1	0	0	3
		Increase delineation around loop ramp			existing off ramp; cable median	Lane					1	
					increase the deceleration lane of						1	
					constructed in 2011 which will						1	
					Weave merge lane to be							
					Added additional flexible delinator posts around loop ramp in 2009;			1				
39	MDOT Taylor TSC	speed advisiory signs.	~\$460,000	None	110558 in 2012.	Departure	4	7	0	0	0	4
Exit 204B - Ramp from EB I-94 to NB M-		cushion, improve advance warning	# 400 000		This work will be completed with JN							
E 1/ 004B B		remove slope paving, install crash										
		drainange, improve surface friction,										
		Improve Superelevation, improve										

	<u> </u>		T	1	T	Т	_	_				
		Signing upgrade (last one completed										
		2007), speed enforcement, improve										
		curve areas where crashes are										
		focused (N Stony Creek Road			2012 Safety Funds Granted to Fix	Lane						
Grafton Road - US-24 to Newport Road	Monroe County	intersection).	\$97,000	availability.	Curve at N Stony Creek Road	Departure	4	4	1	2	0	0
		Edgeline and other pavemet marking										
		updates, chevron signs, guardrail and										
		geometric improvements to		Right of way restrictions, utility		Lane						
Whittier Rd - Wayburn St to Kelly Rd	City of Detroit	eliminate/minimize lane departures.	\$300,000	coordination.		Departure	4	5	0	1	2	3
		Construct paved shoulders, install										
1		centerline and shoulder rumble strips,			The Washtenaw County Road							
		improve ditch slopes and remove any			Commission is planning to apply for							
		roadside obstructions within the road			2012 Safety Funds to assist with	Lane						
Carpenter Road - Pat St to Stark Ln	Wastenaw County	right-of-way.	> \$500,000			Departure	3	4	2	1	0	2
		Eliminate on street parking and remark		Elimination of on-street parking will be		•						
7 Mile Road - Pinehurst St to		pavement to include center left turn		difficult due to most businesses do not		Lane						
Woodingham Dr	Wayne County	lane.	\$100,000	have off street parking.		Departure	3	5	1	0	0	1
		1) Cut trees & widen shoulders 2)		Sight distance, driver correction area, ride	Improve visibility for motorists,							
Erie Road - west of Jackson/Calhoun	Jackson County &	Option #1, plus wedge & recessed	1) \$40,000 2)		correct road crown & new,	Lane						
County line to east of Finley Road	Calhoun County	pavement markings	\$103,000		enhanced pavement markings.	Departure	3	5	1	2	3	1
		Ĭ			Moved planned signing changes	Lane						
Hyne Rd - E/W of Old US-23.	Livingston County				forward.	Departure	3	6	0	2	2	1
	, ,											
	*Alcohol/Drug invol	voment is reported on a ner crash basis	when reported on	the crash report. Not per driver or injured								
	party.	vernent is reported on a per crash basis	when reported on	ille crasif report. Not per univer or injured								
Additional Notes:	<u>'</u>											
		pacitating injured drivers and/or passeng										
		s). Use for remaining drivers and passe										
	•	ashes involve vehicles whose hazardou										
	narrative indicated	a driver was speeding.										